Assignment 6

- D'inite a program to calculate sun of first N natural numbers.
- De write a program to calculate sum of first Neven natural
- 1 write a program to calculate Sum of first Nodd natural Numbers.
- (4) write a program to calculate sum of squares of First N Matural Number.
- Dewrite a program to calculate sum of cubes of first M. natural Numbers.
- 1 write a palgram to calculate factorial of a number.
- 1 write a program to count digits in a given number.
- 1 write a program to check whether a given number is a prime number of or not.
- (5). write a program to calculate LCM of two numbers.
- 10 write a program to revenue a given number.
- Thindude Statio.h)

 int mounc)

 int i, n, sum =0;

 Printf ("Enter a mathemal: M)mber);

 Scomf (";d", fn);

 for (int i=1; i<=n; i++)

Som = Som + 1;

3

Printf(" som of laint n natural manches

Printf("som of hint n natural number: 7.4/n", 10, sum);
returno;

```
(2)
       # indude < Stdio. hy
       int main ()
          int n, s=0, i=2;
          Printf ("Enter a natural number ");
          scanf (" 1/10", &n);
          while (ix=n+2)
           S=S+1;
           1=1+2;
           Prints ("sum of first neven number "d", s);
           return 0;
     Hinclude (statio. h)
3
      int main()
           int n, szo, i=2;
           Printf ("Enter a natural number");
           Sconf (" / d", 4n);
           while (i<=n >2-))
            s = $+i;
i=i+2;
           Printf("sum of first n odd number "d", 5);
           returno;
```

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3

```
Y
         #include < stdio.h)
         int main ()
           int 1'=1, n, sum =0;
           Print F ("Enter n value:");
            Scanf ("y.d", 4n);
           while (ix=n)
             Som t= (i*i);
             itt!
           Printf ("Sim of Square of first Vid natural numbers = ", d", n, Sing,
          preturn 0;
($)
     #include (Statio.h)
     int moin ()
        inti=1, n, sum =0;
        Print f ("Enter n Values;");
        Sconf ("/d", &n) i
       while (i(=n)
          sum to (ixixi);
          itt;
         Printf ("Sum of Square of first > d notural number = > 1",
         refurno;
                                                              Sum),
```

```
(6) #tinelude (stdio.h)
    int main ()
      int n, 121, 221;
      Printf (" Enter ofhe number \n");
      Sconf (" " d", &n);
      20
        F=F*(;
        144 ;
       while (ik=n);
       Printf ("The factorial of a number 1.d in 1.d \n", n, P).
       returno;
    #tinclude (statio.h)
    int main ()
       int n, Count = 0;
       Printf ("Enter a number");
       Sconf (" //d ", An);
       while(n! :0)
          M = 1/10;
         Count ++1
        Printf (" The count digit number is : "dod", Count),"
        retino)
```

```
(8)
        Hinclude < sadio. h)
         int main ()
           int numii, count = 0;
            Prints ("Ender a number! ");
           Scan & (" > 2", (num);
            for (i=2; i < = Aum/2; i++)
              if (num / ( = = 0)
               Count ++;
             4
           )
if ((omt = = 0 44 nom! z1)
               Printe (" " d is not a prime number", num);
               points (" /d is not a prime number", num);
            returno;
(9)
     Hinclude (stdio.h)
     int main ()
       int m1, m2, LCM;
       Printf ("Forter two numbe:");
        Sconf (" " d " d" An, Anz).
        LCM = (n1 > n2) 9 n1: n2;
        while (n1)
          If (1cm 1/1=04+1cm 1/12==0)
          print f(" The LCM of %d and %d is %d", n1, n2, LCM);
         Briak!
         AFLCM;
```

```
Hinclude (Station)
int main()
   int n, neverse =0 15)
  Prints ("Enter any number");
  Sconf (" ", 1", 2n);
  while (n>0)
     S=n210;
     reverse = reverse $10+5;
     n=n/10)
     Pointp("neverse number is: "d", neverse);
     return 0;
```